



# Lunar Science Initiatives

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## FY07 Current Lunar Activities

- Lunar related R&A supported grants
  - Total number: 96
  - CosmoChem, PG&G, DDAP, PATM, PAST, PDDIP
  - Average grant size: \$84K/yr
- Concept Studies for Lunar Sortie Science
  - Selections to be made and announced
- GRAIL Discovery Mission in Phase-A
  - **Gravity Recovery and Interior Laboratory - Maria Zuber (PI)**,  
Produce a uniform, global, high-quality gravity field mapping of the Moon that will allow for unprecedented modeling of its internal structure and thermal history.
- Moon Mineralogy Mapper (M<sup>3</sup>) a Discovery mission of opportunity on Chandrayaan-1 (2008)  
Total FY07 investment ~\$25M+

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# New Lunar Science Project

- Science funding wedge from FY08 - FY13
- Key elements of Lunar Science Project:
  - PSD will support scientific utilization of ESMD's LRO data obtained through the ROSES R&A program
    - Lunar Advanced Science and Exploration Research
    - LRO Participating Scientist program
  - PSD will assume responsibility for operation of LRO after ESMD completes its prime mission phase (~1yr)
    - Operations, science teams, and data archiving
  - Upgrade to Planetary Data System to handle LRO data
  - Potential Mission of Opportunities through Announcements of Opportunities (AO)

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## Lunar Advanced Science and Exploration Research (LASER)

- LASER R&A will appear in ROSES 2007 and supports:
  - a) Basic Lunar Science
  - b) Exploration Lunar Science (Applied)
  - c) Lunar Data Analysis of data within PDS
  - d) Lunar Data Restoration - data than needs to go into PDS
  - e) Ground-based observational support of LCROSS impact
  - ✓ *No selection quotas for (a)-(e)*
  - ✓ *Proposals that span the Basic(a)-Exploration(b) science continuum encouraged*
- Funding ~ \$2-3M/year (Co-Funded: PSD-ESMD)
- Seeking 1, 2, or 3 year proposals
- LRO Participating Scientist will be a separate call in 2007

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